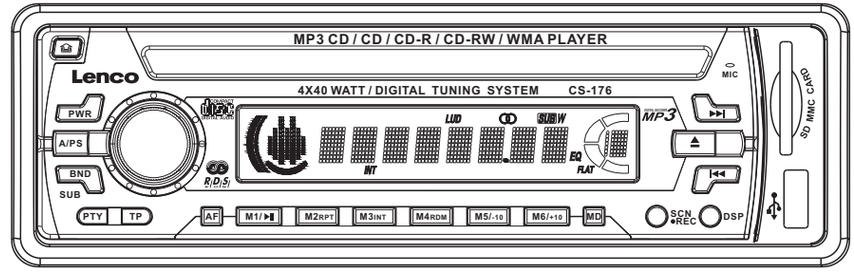
Dimension: 120X160MM

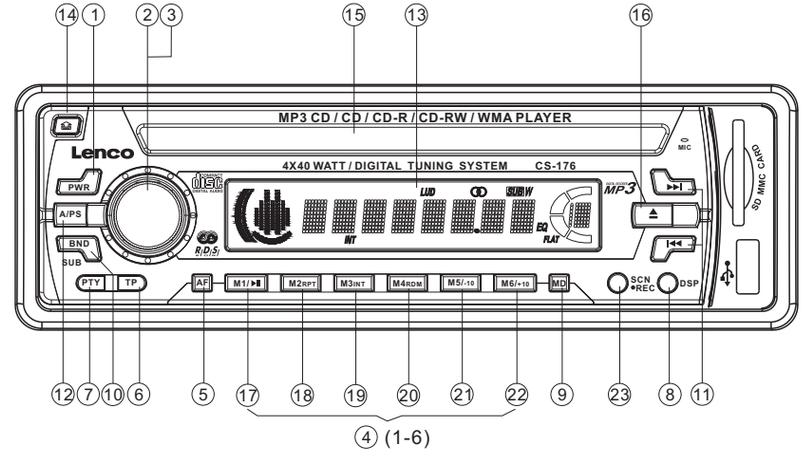
Lenco

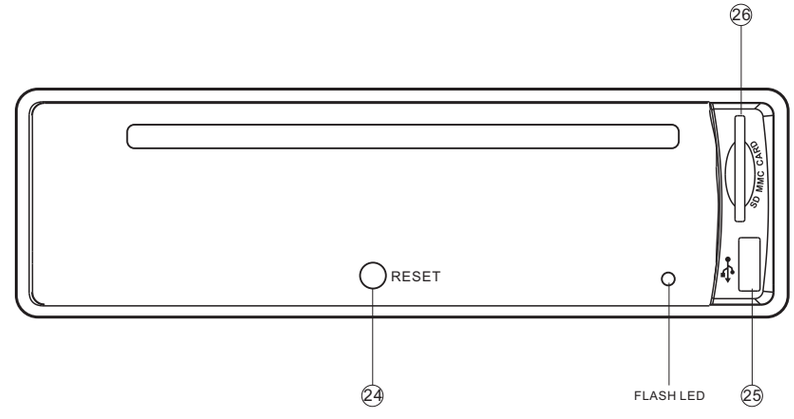
Instruction manual



MODEL NO: CS-176

Car Stereo Compact Disc
CD/CD-R/CD-RW/MP3 WMA SD/MMC USB
Media Player with PLL FM Stereo Radio
Radio Data System with PTY
Detachable Front Panel System


MP3 CD / CD / CD-R / CD-RW / WMA PLAYER
Lenco
4X40 WATT / DIGITAL TUNING SYSTEM CS-176
PWR
A/PS
BND
SUB
PTY
TP
AF
M1/▶II
M2RPT
M3INT
M4RDM
M5/-10
M6/+10
MD
SCN
REC
DSP
MIC
SD MMC CARD
MP3
LOUD
SUBW
EQ
FLAT
14 1 2 3 15 13 16
12 7 10 6 5 17 18 19 20 21 22 9 23 8 11
4 (1-6)


26
SD MMC CARD
RESET
24
FLASH LED
25

Car Stereo Compact Disc CD/CD-R/CD-RW/MP3 WMA SD/MMC USB Media Player with PLL FM Stereo Radio
Radio Data System with PTY
Detachable Front Panel System

INSTRUCTION MANUAL

Please read this instruction manual carefully and familiarize yourself with your new Radio CD before using it for the first time.
Please retain this manual for future reference.

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Features
Installation
Precautions and Maintenance
Operating Instructions
Specifications

LOCATIONS OF CONTROLS

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3. VOL UP/VOL DOWN BASS/TREBLE/BALANCE/FADER (+,-)
4. PRESET STATIONS (1,2,3,4,5,6)
5. "AF" FUNCTION (ALTERNATIVE FREQUENCIES)
6. "TP" FUNCTION (TRAFFIC PROGRAM)
7. "PTY"FUNTION (PROGRAM TYPE)
8. DISPLAY/CLOCK BUTTON (DSP)
9. MODE BUTTON(MD)
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20. RANDOM BUTTON "RDM"

21,22. +/- 10 TRACK SEARCH UP/DOWN
23. SCAN OR RECORD BUTTON(SCN/REC)
24. RESET BUTTON
25. USB JACK AND SD/MMC CARD JACK

FEATURES

The unit features a detachable front control panel, FM stereo, CD/MP3 player the following features:

- SD/MMC Card and USB Media player function
- Firmware Upgrade VIA USB
- RADIO/CD Recoding Function
- MP3/WMA Copy Function
- The best stations memory automatically memorizes the best(strongest) station in the order their strength(AS)
- Electronic Volume, Bass, Treble, Fader and Balance control
- Precision electronic tuning with phase-lock loop(P.L.L.) Circuitry
- Programmable 18 preset memory tuning (6 each for FM1/FM2/FM3)
- Loudness control Manual/Auto(Seek)/up and down tuning control
- Band selector for FM1/FM2/FM3
- Display control(Frequency, Station Name, Program Type, Clock)
- Clock Function in RDS
- CD/WMA Repeat Function
- CD and MP3 files on CD/CD-R/CD-RW player function
- Preamplified Line-out for external amplifier
- Detachaale front panel protects against theft
- Lighting system
- RDS Function:
  PI (Program Identification) TA (Traffic Announcement)
  PS (Program Service Name) PTY (Program Type)
  AF (List of Alternative Frequencies) TP (Traffic Program)

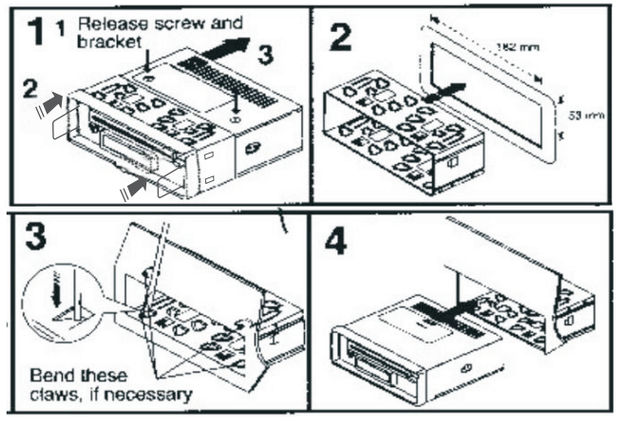
INSTALLATION
PRECAUTIONS

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.
- Be sure to remove the front panel before installing the unit.

Mounting angle adjustment
Adjust the mounting angle to less than 30°.

MOUNTING EXAMPLE

Installation in the dashboard



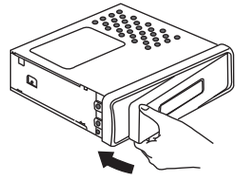
Note: Keep the release key in the safe place as you may need it in future to remove the unit from the car.

Detaching and attaching the front panel

The front panel of this unit can be detached in order to prevent the unit from being stolen.

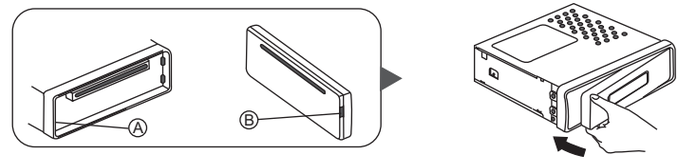
DETACHING THE FRONT PANEL

Before detaching the front panel, be sure to press the PWR button to turn off the unit first. Then press the button and detach the panel by pulling it towards you as illustrated.
Note: Be sure not to drop the panel when detaching it from the unit.



ATTACHING THE FRONT PANEL

Make sure the front panel is the right way up when attaching it to the unit as it cannot be attached upside down. Bring side B of panel to side A of main unit.
Inset the panel in and push until it clicks.
Panel is attached.



Notes:

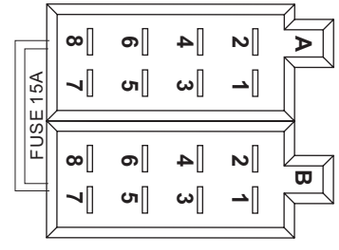
- Do not press the front panel hard against the unit when attaching it. It can be easily attached by pressing it lightly against the unit.
- When you carry the front panel with you, put it in the supplied front panel case.
- Do not press hard or give excessive pressure to the display window of the front panel when attaching it to the unit.

ISO CONNECTOR

RCA Jack Line Out(Rear)-Gray
:Red(right)
:White(left)

CONNECTOR A

1.
2.
3.
4. MEMORY +12V
5. AUTO ANTENNA OUTPUT
6.
7.+12V (TO IGNITION KEY)
8. GROUND



Note:
The connector A no.7 must be connected by car ignition key in order to avoid that car battery becomes weak when the car will be not used for long period.

CONNECTOR B

1. REAR RIGHT SPEAKER(+)
2. REAR RIGHT SPEAKER(-)
3. FRONT RIGHT SPEAKER(+)
4. FRONT RIGHT SPEAKER(-)
5 FRONT LEFT SPEAKER(+)
6 FRONT LEFT SPEAKER(-)
7. REAR LEFT SPEAKER(+)
8. REAR LEFT SPEAKER(-)

Maintenance

FUSE REPLACEMENT

If the fuse blows, check the power connection and replace the fuse. IF the fuse blows again after the replacement, there may be an internal malfunction. In this case, consult your near est repairing center.

Warning

Use the specified amperage fuse for each lead. Use of a higher amperage fuse may cause serious damage.

OPERATING INSTRUCTIONS

1. POWER ON/OFF

By pressing this key(1), the unit is switched on and off.
This unit is turned on by pressing any key.

2. SELECTION TUNING KNOB(SEL)

3. VOLUME UP/DOWN(+/-)

Rotate the VOL.UP(+) and VOL.DOWN(-) knob(3) to control the VOLUME to select other functions, press the SEL(2) button shortly until the desired functions is shown on the dis-play. Figure 1 shows how control functions are selected using the SEL button.

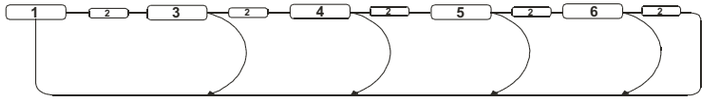


Fig. 1 Selection of sound control functions

1. VOLUME 2. SELECT 3. BASS 4. TREBLE 5. BALANCE 6.FADER
Rotate the knob to increase or decrease the volume. These buttons can be used to adjust the BASS, TREBLE, BALANCE AND FADER.

When pressed the Audio SEL key continuously for 0.7sec.,some audio setting can be adjusted for power on initialization.
The list below is sequentially called by shortly pressed of SEL key. Use AUD +/- to adjust the value.

TAVOL: Volume level during Traffic Announcement (Minimum 16).
INVOL: Power on Volume level. The volume level is lowered to this value (default INVOL=17).

Power off	Power on
Vol > INVOL	Vol = INVOL
Vol < INVOL	Vol = old VOL

4. PRESET STATIONS(M1,M2,M3,M4,M5,M6)

(A) RADIO MODE:

When press short, these keys select a preset station directly. When press longer than 1 sec., current station is stored in preset memory bank. When PTY mode is selected, the PTY switch is shared as follows:
PTY music group---PTY speech group---OFF

MUSIC	SPEECH
1. POP M, ROCK M	1. NEWS, AFFAIRS, INFO
2. EASY M, LIGHT M	2. SPORT, EDUCATE, DRAMA
3. CLASSICS , OTHER M	3. CULTURE, SCIENCE, VARIED

(B) CD MODE:

1. PAUSE 2. REPEAT 3. INTRO 4. RANDOM

(C) WMA/MP3/SD/MMC/USB MODE:

1. PAUSE 2. REPEAT 3. INTRO 4. RANDOM 5. -10 6. +10

USING THE RDS FUNCTION

What is RDS?

The RDS (Radio Data System) is a digital information system developed by theEBU (Euro pean Broadcast Union). Piggy-backed on normal FM broadcasts, RDS offers a variety of information services and automatic retuning functions for RDS-compatible car stereos. In1988, RDS became available in the United Kingdom, France, West Germany, Ireland and Sweden. Test transmissions are being conducted in many other European countries. It is expected that RDS will be available in most western European countries in the near future.

5. “AF/REG” function(ALTERNATIVE FREQUENCIES)

When press short, AF/REG switching mode is selected.
When AF/REG switching mode is selected, the radio checks the signal strength of the AF all the time. When press long, it is activated as regional mode ON/OFF.

-Regional mode ON:

AF switching or PI SEEK is implemented to the station which have all PI codes same as current station. REG segment is turned on in LCD display.

-Regional mode OFF

The regional code in the format of PI code is ignored when AF switching or PI SEEK is implemented.

6. "TP" function(TRAFFIC PROGRAM)

When press short, it is activated as TP mode on or off.
When TP mode is on and traffic announcement is transmitted.
-When the unit is in CD/MP3 mode, it will switch to radio mode temporarily.
-If the volume level was under the threshold point, it will be raised to the threshold point.
-When TP station is received, TP segment is turned on in LCD display.

7. "PTY" function(PROGRAM TYPE)

PTY MUSIC---PTY SPEECH---PTY OFF
While selecting PTY type, its selection is impremented by select buttons as described in preset key. When PTY is selected, the radio starts to search corresponing PTY information, and stops if the corresponding PTY information is detected.

8. DISPLAY(DSP)

Selects radio frequency ,clock display .
To set the clock:
1. With clock display selected, hold down the "DSP" button until clock display starts flashing.
2. Rotate the volume knob to change minutes .
3. Press "DSP" button to start the clock.

9. MODE BUTTON(MD)

By pressing this key, user can select RADIO mode , CD/MP3/WMA PLAYER mode, SD/MMC /USB mode.

10. BAND sub woofer BUTTON(BND/SUB)

(A) RADIO MODE

Each band is toggled cyclically by pressing this key FM1-FM2-FM3

``

-

(B) CD/MP3/SD/MMC/USB MODE

By pressing this key, user can execute search function.

(C)SUB WOOFER

Press "BND" W button for more than 2sec.will open SUB LINE-OUT in any modes, and the LCD will display "SUB W". Pressing long this button once to exit the mode.

11. AUTOMATIC OR MANUAL TUNING (FREQ UP OR FREQ DOWN)

(A) RADIO MODE

When press less than 1 sec, they are operated as SEEK tuning mode.
When press longer than 1 sec., they are operated as MANUAL tuning mode.

(B) CD/MP3/SD/MMC/USB MODE

When press less than 1 sec, they are operated as TRACK UP/DOWN mode.
When press longer than 1 sec., they are operated as FORWARD or REVERSE mode.`

12. AUTO SEEK SEARCH TUNING(A/PS / SCH)

(A) RADIO MODE

By pressing shortly, the radio searches for each preset station.
When field strength level is bigger than the threshold level of stop level, the radio is holding at that preset number for 5 sec.with releasing mute, channel is flashing during the process, then searches again.

By pressing longer than 1 sec, AUTO MEMORY is activated and then 6 strongest stations are preset to the corresponding preset number.
When A/PS operation is finished, the radio executes the preset scan .

(B) CD/MP3/SD/MMC/USB MODE

Press this button to start search track or file.

13. LCD DISPLAY

The liquid Crystal Display will display the current state of the unit.

14. PANEL RELEASE BUTTON

Press this button (14) to release the front panel.

CD/SD/MMC/USB CONTROL LOCATION OF PARTS

11. SKIP TRACK/SEARCH BUTTON

FORWARD AND REVERSE TRACK SEARCH(or changing songs)
Press the SKIP button(TUN or TUN) during play to go to the desired track(song).

TUN ...REVERSE TUN ...FORWARD

Press and hold the SKIP button(TUN or TUN) during play to scan the disc at high speed. When the desired music section of the disc is found, release the button. Normal play will resume. When CD/MP3 play is finished, CD/MP3 mode automatically changes to radio mode.

Press and hold the SKIP button (Tun or Tun)during in SD/MMC/USB status to scan the file at high speed. When the desired file of the SD card is found, release the button, then the desired file will be played. When SD/MMC/USB play is finished, SD/MMC/USB mode will automatically change to radio mode.

15. CD SLOT

16. CD EJECT BUTTON

Press the EJECT button(16) to remove the CD.

17. PAUSE BUTTON

During "PLAY" mode, press "PAU" button(17) to PAUSE . Press it again to resume play.

18. REPEAT BUTTON "RPT"

When this button is pressed, "RPT" indication is displayed and the selected track will be continually repeated until the track repeat mode is cancelled by pressing "RPT" button (18) again.

19. INTRO BUTTON(Preview all Tracks) "INT"

When this button (19) is pressed, "INT ON" indication is displayed and the first several seconds of each track of the disc are played. Press again to stop INT function and listen to track.

20. RANDOM BUTTON "RDM"

When this button is pressed, "RDM" indication is displayed and each track of the disc are played in random instead of normal progression. To exit RANDOM mode, press "RDM" button (20) again.

21,22. 10 TRACK UP/DOWN SELECT:(In case of MP3/SD/MMC/USB files)

M5: 10 TRACK DOWN M6: 10 TRACK UP

23. SCAN OR RECORD and DELETE FUNCTION (SCN/REC)

A. RADIO MODE

The key is operated as RADIO MODE. The operation is similar as normal search but different thing is holding 5 seconds on every station detected in RADIO SCAN mode.

B. SD/MMC/USB MODE

The record function is activated when pressing "SCN/REC" button long in all modes. It can perform tuner record function, CD record function, and line-in record function including delete and copy function into SD/MMC or USB media.
Press "SCN/REC"(23) button in all modes to start recording, and the format is MP3.

RECORDING

Record file

In RADIO/CD mode

Press and holding "REC" (23)button for longer than 2 sec.to select between SD/MMC and USB, the LCD will display "REC MMC" or "REC USB".

In MP3/WMA mode

Press and holding "REC"(23) button for longer than 2 sec.,then "COPY MMC" will be displayed in the LCD, press again, you will see "COPY USB".
Press "BAND" button (10)to select the media to start record or copy..

Play recording file

Insert SD/MMC card or USB disc into SD/MMC or USB jack respectively, you will see the words "SD/MMC" or "USB" in the LCD , then start playback.

Stop recording

The record function will be terminated by pressing long "SCN/REC" button or pressing short "BAND/ENT" to stop running of the record function and return to the previous operation mode.

Delete recorded file

When playing SD/MMC/USB recorded file, press "SCN/REC" for 2 sec.,the unit will display "DELETE", press "BAND" button to confirm and the selected file will be deleted.

Record file by microphone(MIC)

The unit also support recording from MIC. After enter recording mode, the unit will record the words what users said automatically.
Note: This function only applies to USB/SD/MMC mode.

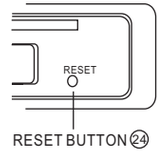
In USB/SD/MMC mode, press "SCN/REC" button for a long time to enter record mode, "R01 00.00" will appear in the LCD. When letter "R" is blinking, it means recording starts. Finish recording, please press "BND" to confirm.
The format of recording file is MP3.

Play recording file
Insert SD/MMC card or USB disc into SD/MMC or USB jack respectively, you will see the words "SD/MMC" or "USB" in the LCD , then start playback.

Stop recording
The record function will be terminated by pressing long "SCN/REC" button or pressing short "BAND/ENT" to stop running of the record function and return to the previous operation mode.

Delete recorded file
When playing t SD/MMC/USB recorded file , press "SCN/REC" for a short time, "DELETE" will appear in the LCD. Press "BND" button to confirm, and the selected file will be deleted.
Note: only delete music file.

• RESET
Reset button(24) is placed on the housing. The reset button is to be activated for the following:



Initial installation of the unit when all wiring is completed.
All the function button do not operated.
Error symbol on the display

HOW TO SEARCH MP3 FILES

Search function is activated by pressing down A/PS key.
Press this key at first, filenumber search function is activated, press again, filename searc function, and finally exits search function.

Filenumber search filename search exit search

(1) Filenumber search

When three digits of zeros are displayed in CD/USB/SD/MMC mode, it means ready to get the file number.
You can press M1,M2,M3,M4, M5, M6 to select the track you want (as illustrated):

- 0 0 0 - NUMBER OF TOTAL SONG IS LESS THAN 1000
- 0 0 0 0 - NUMBER OF TO TAL SONG IS MORE THAN 1000
When press M1, then the unit will display "*0 0 1"
When press M2, then the unit will display "*0 1 2"
When press M3, then the unit will display "* 1 2 3" .....
(If number seat is exceed, automatic scroll)

After select track you want, press "BAND" button to confirm and the unit start playback (if there is no number, last song play).

(2) Filename search

Filemame search function requires only three characters.
When filename search function starts, "A**" will be displayed, press "SEL" to enter into a or next field (as illustrated):

A ** - - - - :start search mode (the unit display character "A")
A B* - - - -: Next field (press "SEL" button, select "B" by pressing FF button, then blink "B")
A B C - - - - :Last field (repeat the operation , then blink "C")

After select track you want, press "BAND" button to confirm and the unit start playback.

Pressing to change blinking character (the character will be changed from "A" through "Z" and "0" through "9".

When the LCD display "NO MATCH", it means search failed and restart search mode.

BAND	MP3 NAVIGATION MODE SELECT, ENTER
M1	PLAY, PAUSE
M2	RPT
M3	INT
M4	RDM
D.DN	10 TRACK DOWN
D.UP	10 TRACK UP
VOL UP/DOWN	TRACK UP/DOWN CAHRACTER SEL

SPECIFICATIONS

CD/MP3 PLAYER SECTION

Signal to Noise Ratio	>60dB
Channel Separation	>50dB(1KHz)
Frequency Response	20Hz-20KHz

FM SECTION

Frequency range	87.5-108.0MHz
Channel step	50KHz
Intermediate frequency	10.7MHz
Sensitivity	2μV at 30 dB S/N
Stereo separation	>30dB
Signal to noise radio	>60dB

LINE-OUT

Output	600mV max.
Impedance	10KOhm

GENERAL

Power Supply Voltage	DC 13.8 Volts Negative Ground
Speaker Impedance	4 or 8 ohm
Max Current Consumption	15A
Max Output power	40W x 4 CH

Note: Specifications and the design are subject to possible modification without notice due to improvement.